

Title (en)

Device for extrapolation from cone beam projection data

Title (de)

Vorrichtung zur Extrapolierung von Kegelstrahlprojektionsdaten

Title (fr)

Dispositif d'extrapolation de données de projection de faisceaux coniques

Publication

**EP 0971318 A3 20021204 (EN)**

Application

**EP 99305428 A 19990708**

Priority

US 11384198 A 19980710

Abstract (en)

[origin: EP0971318A2] A source (10) applies imaging energy that passes through an object (12) being imaged and is then detected by a detector (14). A scanning trajectory causes the detector to provide a Cauchy data set of measured cone beam data to a processor (18). The processor extrapolates by use of John's equation (20,22) such that missing cone beam data is determined. The measured cone beam data and the determined cone beam data together provide (24,26) a complete data set for exact image reconstruction (28,30). <IMAGE>

IPC 1-7

**G06T 11/00**

IPC 8 full level

**A61B 6/03** (2006.01); **G01N 23/04** (2006.01); **G06T 1/00** (2006.01); **G06T 11/00** (2006.01)

CPC (source: EP US)

**G06T 11/005** (2013.01 - EP US); **A61B 6/027** (2013.01 - EP US); **Y10S 378/901** (2013.01 - EP US)

Citation (search report)

- [A] EP 0521689 A2 19930107 - GEN ELECTRIC [US]
- [A] WO 9203970 A1 19920319 - GEN ELECTRIC [US]
- [A] KEINERT, FRITZ: "Inversion of k-plane transforms and applications in computer tomography", SIAM REVIEW, vol. 31, 1989, pages 273 - 298, XP002215256, Retrieved from the Internet <URL:www.math.iastate.edu/keinert/papers/kplane.pdf> [retrieved on 20020920]

Cited by

US8098920B2; US6845141B2; WO0193201A1

Designated contracting state (EPC)

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DOCDB simple family (application)

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